EO M321.02 – RIG SHEERS

1. **Performance:** Rig Sheers.

2. **Conditions:**

   a. Given:

      (1) Sheers kit (IAW Chapter 2,),

      (2) Load of 22 kg (50 lbs) or less,

      (3) Hard hat,

      (4) Knife with lanyard,

      (5) Supervision, and

      (6) Assistance as required.

   b. Denied: N/A.

   c. Environmental: Training area large enough to accommodate the entire group.

3. **Standard:** The cadet, as a member of a group, shall rig sheers, to include:

   a. describing its function;

   b. identifying its parts;

   c. rigging;

   d. responding to commands; and

   e. de-rigging.

4. **Teaching Points:**

TP	Description	Method	Time	Ref
TP1	Explain the function of sheers, to include: a. lifting a load that is not required to be slewed; and b. lifting a load from a jetty onto the ship.	Interactive Lecture	5 min	C1-049 (p. 197, p. 198)

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TP	Description	Method	Time	Ref
TP2	Describe the parts of the sheers, to include: a. spars, b. head lashing, c. topping lift, d. main purchase, e. leading block (for the fall of the main purchase), f. strops, g. splay tackle, h. heel tackles, i. tag line, j. martingale (if fitted), and k. shoes (if fitted).	Interactive Lecture	10 min	C1-049 (p. 197)
TP3	Demonstrate and have the cadets tie a timber hitch.	Demonstration and Performance	20 min	C1-064 (p. 98, p. 99)
TP4	Demonstrate and have the cadets choke a luff.	Demonstration and Performance	20 min	C1-003 (p. 170, p. 171)
TP5	Describe the actions taken in response to the following commands: a. heave in, b. check away, c. avast, d. choke, e. secure, f. handsomely, and g. roundly.	Interactive Lecture	15 min	A1-004 (pp. 3-21 to 3-28)
TP6	Demonstrate and have the cadets, as members of a group, rig sheers.	Demonstration and Performance	20 min	C1-049 (pp. 205–207)
TP7	Have the cadets, as members of a group, operate the sheers, to include: a. raising the sheers; b. hooking on a load of 22 kg (50 lbs) or less; c. raising the load; d. securing the load line; e. lowering the load; and f. lowering the sheers. **Note:** Minimum group size for this TP is four.	Practical Activity	40 min	C1-049 (p. 210)

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TP	Description	Method	Time	Ref
TP8	Demonstrate and have the cadets, as members of a group, de-rig sheers.	Demonstration and Performance	10 min	

5. **Time:**

a.	Introduction/Conclusion:	10 min
b.	Interactive Lecture:	30 min
c.	Demonstration and Performance:	70 min
d.	Practical Activity:	40 min
e.	Total:	150 min

6. **Substantiation:**

a. An interactive lecture was chosen for TPs 1, 2 and 5 to present and illustrate the function, basic materials needed and the application of commands for rigging sheers.

b. Demonstration and performance was chosen for TPs 3, 4, 6 and 8 as it provides the instructor the opportunity to introduce sheers, demonstrate procedures and observe the cadets' rigging and de-rigging skills.

c. A practical activity was chosen for TP 7 as it is an interactive way to introduce the cadets to operating sheers in a safe and controlled environment. This activity contributes to the development of seamanship skills and teamwork in a fun and challenging setting.

7. **References:**

a. C1-003 (ISBN 11-770973-5) Royal Navy. (1972). *Admiralty Manual of Seamanship 1964* (Vol. 1). London, England: Her Majesty's Stationery Office.

b. C1-049 (ISBN 0-11-771958-7) Royal Navy. (1967). *Admiralty Manual of Seamanship 1964* (Vol. 2). Cambridge, England: Her Majesty's Stationery Office.

c. C1-064 (ISBN 1-55267-986-1) Budworth, G. (2001). *The Ultimate Encyclopedia of Knots & Ropework*. London, England: Anness Publishing Limited.

8. **Training Aids:**

a. Presentation aids (eg, whiteboard/flip chart/OHP) appropriate for the classroom/training area,

b. Sheers kit,

c. Load of 22 kg (50 lbs) or less,

d. Pylons,

e. Whistle,

f. Stopwatch,

g. Parts cards,

h. Picture/model of sheers, and

i. Sheers scoresheet.

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9. **Learning Aids:**

   a. Sheers kit,

   b. Load of 22 kg (50 lbs) or less,

   c. Hook,

   d. Hard hat,

   e. Issued cadet boots, and

   f. Knife with lanyard.

10. **Test Details:** This EO is assessed IAW Chapter 3, (321 PC).

11. **Remarks:**

   a. This EO shall be conducted after EO M321.01 (Describe Safety Procedures for Operating Lifting Devices).

   b. This EO may be conducted as five consecutive periods on a weekend training day or over two training nights. Training night one will consist of TPs 1 to 4 for a total of two periods. Training night two will consist of TPs 5 to 8 for a total of three periods.

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